

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Gasil IJ24
Synthetic amorphous silica
CAS No. 112926-00-8 *
EINECS No. 231-545-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) Additive for use in a wide range of applications including polymers, paper, paints and coatings. ; Ink adsorption ; Matting agent ; Process regulator or aid ;
Uses advised against None known.

1.3 Details of the supplier of the safety data sheet

Company Identification PQ Corporation
P.O. Box 840
Valley Forge
PA 19482
USA
Telephone: +1 610-651-4200
E-Mail (competent person) sds.uk@pqcorp.com

1.4 Emergency telephone number

Emergency Phone No. +1 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification Not classified as dangerous for supply/use.

Hazards summary Exposure to any kind of dust is potentially harmful.

2.2 Label elements

Signal word(s) None.

Hazard statement(s) None.

Precautionary statement(s) None.

2.3 Other hazards Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	Hazard symbol(s) and hazard statement(s)
Synthetic amorphous silica	> 95 %	112926-00-8 *	231-545-4 01-2119379499-16	Not classified
Water	< 5 %	7732-18-5	231-791-2	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact	If substance has got into the eyes, immediately wash out with plenty of water. Obtain immediate medical attention.
Skin Contact	Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.
Inhalation	Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.
Ingestion	Do not induce vomiting. Wash out mouth with water. If large amount swallowed or symptoms develop obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed Exposure to any kind of dust is potentially harmful.

4.3 Indication of any immediate medical attention and special treatment needed See Section: 4.1

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media	
Suitable Extinguishing Media	Compatible with all standard fire fighting techniques.
Unsuitable extinguishing Media	None known.
5.2 Special hazards arising from the substance or mixture	Not applicable. Inorganic powder or granules. Non-combustible.
5.3 Advice for fire-fighters	None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Wear suitable protective clothing. Wear eye/face protection. An approved dust mask should be worn if dust is generated during handling.
6.2 Environmental precautions	Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment.
6.3 Methods and materials for containment and cleaning up	Contain spillages. Dampening with water can reduce dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.
6.4 Reference to other sections	See Also Section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid generation of dust. A considerable static electrical charge can be built up during mechanical handling which may become a hazard in atmospheres containing flammable vapours. Advice on the control of static is given in British Standard BS 5958. Advice on the control of static is given in British Standard BS 5958. See Also Section 8.
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed and dry.
7.3 Specific end use(s)	No data.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits
Synthetic amorphous silica	UK EH40: Silica amorphous Total inhalable dust: WEL 6 mg/m ³ 8h TWA. Respirable dust: WEL 2.4 mg/m ³ 8h TWA. US ACGIH: Silica, Amorphous - Precipitated silica and silica gel: TLV withdrawn 2006 US OSHA: Silica amorphous - Precipitated silica: PEL 6mg/m ³ 8h TWA

8.2 Exposure controls

Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

8.2.1 Appropriate engineering controls

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

8.2.2 Personal Protection

Respiratory protection

Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

Eye/face protection

Safety spectacles. Eye protection with side protection (EN 166) .

Skin protection

Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example EN374-3. Wear suitable overalls.

8.2.3 Environmental Exposure Controls

Avoid generation of dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Powder. White.
Odour	Odourless.
Odour Threshold (ppm)	Not applicable.
pH (Value)	3 - 10 at 5% w/w in water.
Freezing Point (°C)	Not applicable.
Melting Point (°C)	> 1000
Boiling Point (°C)	Not applicable.
Flash Point (°C) [Closed cup]	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not applicable.
Vapour Pressure (mm Hg)	Not applicable.
Vapour Density (Air=1)	Not applicable.
Density (g/ml)	No data.
Solubility (Water)	Insoluble.
Solubility (Other)	No data.
Partition Coefficient	No data.
Auto Ignition Point (°C)	Not applicable.
Decomposition Temperature (°C)	Not applicable.
Viscosity (mPa. s)	Not applicable.
Explosive properties	Not applicable.
Oxidising Properties	Not applicable.
9.2 Other information	No data.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

See Section: 10.3

10.2 Chemical stability

This product is hygroscopic.

10.3 Possibility of hazardous reactions	None known.
10.4 Conditions to avoid	See Section: 10.3
10.5 Incompatible materials	See Section: 10.3
10.6 Hazardous decomposition product(s)	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion	The lethal dose for humans for synthetic amorphous silica is estimated at over 15000 mg/kg bw. Synthetic amorphous silica is a permitted food additive in the UK, US and many other countries. Oral LD50 (rat) >3100 mg/kg bw
Inhalation	Synthetic amorphous silica has little adverse effect on lungs and does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However, existing medical conditions (eg. asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be greater, and occur at lower levels of exposure in smokers compared to non-smokers.
Skin Contact	Dust may have a drying effect on the skin. Dermal LD50 (rabbit) >5000 mg/kg bw
Eye Contact	Dust may cause discomfort and mild irritation.
Skin corrosion/irritation	Non-irritant. Dust may have a drying effect on the skin.
Serious eye damage/irritation	Non-irritant.
Sensitisation	Not sensitising.
Mutagenicity	No evidence of genotoxicity. In vitro/in vivo negative.
Carcinogenicity	IARC assessment: Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3).
Reproductive toxicity	No evidence of reproductive toxicity or developmental toxicity.
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified. NOAEL oral (rat) >4000 mg/kg bw/d
Aspiration hazard	Not classified
Other information	Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment. Fish (Brachydanio rerio) LL50 (96 hour) >10000 mg/l Aquatic invertebrates: (Daphnia magna) EL50 (24 hour) >10000 mg/l
12.2 Persistence and degradability	Inorganic.
12.3 Bioaccumulative potential	Inorganic. The substance has no potential for bioaccumulation.
12.4 Mobility in soil	Not applicable.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods** Disposal should be in accordance with local, state or national legislation.
This product normally causes no problems in sewage treatment works, where it settles with the sewage sludge.
This material is not classified as hazardous waste under EC Directive 2008/98/EC (and amendments). This material is not classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894. This material is not classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894.
May be disposed of by landfill in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

- 14.1 UN number** Not classified as dangerous for transport. Not classified as hazardous under DOT or US Transport Recommendations.
- 14.2 Proper Shipping Name** Not applicable.
- 14.3 Transport hazard class(es)** Not applicable.
- 14.4 Packing group** Not applicable.
- 14.5 Environmental hazards** Not applicable.
- 14.6 Special precautions for user** None. No special packaging requirements.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA Inventory Status: Reported/Included. CAS No. 7631-86-9

AICS Inventory Status: Reported/Included.

DSL/NDSL Inventory Status: Reported/Included.

German Water Hazard Classification VwVwS: Product ID number 849, not hazardous to water - nwg.

HMIS (Hazardous Material Information System) :

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

SARA/Title III Hazard Categories :

Immediate (acute) Health: No

Reactive Hazard: No

Delayed (chronic) Health: No

Sudden Release of Pressure: No

Fire Hazard: No

- 15.2 Chemical Safety Assessment** Information available on request.

SECTION 16: OTHER INFORMATION

Data referenced in this eSDS is from company-owned information, from data legitimately accessed by PQ Corporation through membership of Industry Consortia or other agreements, or from data provided by raw material suppliers.

This SDS was last reviewed: 05/2015

The following sections contain revisions or new statements: All sections.

* NOTE: 1990 CAS (Chemical Abstract Service) added additional CAS Numbers to differentiate the many amorphous silicas covered by CAS 7631-86-9. CAS 112926-00-8 identifies amorphous silica gel or precipitate containing 0% crystalline silica.

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